

### Abstract

#### Sequences of an $I_h$ ion channel and use thereof

The present invention relates to a nucleic acid, preferably a DNA, comprising at least a part of the sequence of an  $I_h$  ion channel. Said sequence may e.g. be derived from a human DNA, a rat DNA, a bovine DNA, a *Drosophila melanogaster* DNA or a sea urchin DNA. Furthermore, the present invention relates to an mRNA molecule which contains the corresponding sequences. The invention further relates to a polypeptide or protein encoded by the nucleic acid.

Furthermore, the invention relates to the use of the inventive nucleic acid and proteins for a screening and/or diagnosing method and to the kits required therefor.

Lastly, the invention relates to the use of one or more nucleic acids and proteins for the treatment and/or prophylaxis of cardiovascular disorders and disturbances of consciousness.

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